

15W POLO bulkhead

New ERP

Data Sheet

For Series: OT-HPB01



RoHS



Designed by OTC Project team

Made in China

Dear partners,

* Thanks for Choosing OTC LED bulkheads for your projects.

OTC always pursue high quality, steady quality products, competitive price and one-stop customer service, and offer enjoyable installation experience.

* All the OTC bulkheads with 5 years quality guarantee (Battery 3 years) . If any doubts/ questions, please contact OTC project support team directly by email support@otcind.net . You will get solutions in 7~24 hours rapidly.

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1 Security relate information

- Installation should be carried out in accordance with the latest edition of the I.E.E. Wiring regulations and taking into consideration the latest building regulations.
- Ensure that all electrical connections are tight with no loose strands, including factory made connections.
- Ensure there is adequate free air circulation of at least 100mm around the luminaire. It is the installer's responsibility to consider fire risk and take appropriate precautions.
- A seperate enclosure may be required if this unit is to be used in dusty and wet environments.

Q.C. date label, installation in an improper working environment or installation not according to the current edition of the I.E.E. Wiring Regulations . The guarantee is also invalidated if the luminaire has been I.R. tested. Should this product fail during the guarantee period it will be replaced free of charge, subject to correct installation and return of the faulty unit. We do not accept responsibility for any installation costs associated with the replacement of this product. Your statutory rights are not affected. We reserve the right to alter specifications without prior notice.

2 Packing list



The Lamp *1



Installation pack *1



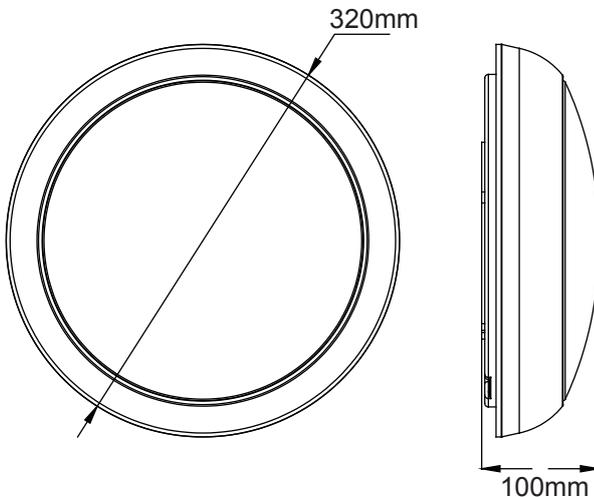
User manual *1



Remote cotroller *1
(Only remote test version)

3 Basic Parameters

Model	Art Nr. OT-HPB01			
	96	96MC	96E-ST	96EMC-ST
Material	polycarbonate			
LED Chips	96 pcs 2835			
Luminous Flux(Mains)	1500LM			
Color Rendering Index	>80			
CCT	3000/4000/6000 available			
Degree of protection	IP65			
Input Voltage	AC90-260V 50/60HZ		AC200-240V 50/60HZ	
Input power (Mains +EM)	15W	15W	15+2W	15+2W
Power factor	>0.9	>0.8	>0.8	>0.8
Warm up time	<1S			
LED lifespan	50,000 hrs			
Beam angle	120°			
Sensor & Corridor function	NO	With	NO	With
Emergency Pack	NO		12 V 1.0Ah, Ni-Cd	
Self & remote test	NO		With	
Emergency time / LM	NO		3 hours / 120Lm	



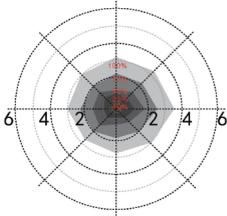
4 Sensor information/ Setting (96MC & 96EMC-ST only)

Input	Operating Voltage Range	198-264V AC, 50Hz/60Hz
	DC Input Voltage	N/A
	Rated Voltage	220-240V AC, 50Hz/60Hz
	No-load Power	N/A
	Stand-by Power	≤0.5W
	Surge Test	L--N: 1kV
Output	Working Mode	ON/OFF function
	Type of Load	Inductive or Resistive Load
	Load Capacity	400W(Inductive) ; 800W(Resistive)
	Current of Load	N/A
	Max. Surge Capacity	30A (50% Ipeak, twidth =500uS, 230Vac full load, cold start); 60A (50% Ipeak, twidth =200uS, 230Vac, full load, cold start)
Dim Interface	1-10V Dimming	N/A
	Synchronous Control	N/A
	High Low-level	N/A
	PWM Control	N/A
Sensor Parameters	Operating Frequency	5.8 GHz ±75 MHz, ISM Band.
	Transmitting power	1mW Max.
	Hold time	5S/30S/90S/3min/20min/30min(set via 3 DIP switch)
	Stand-by DIM Level	N/A
	Stand-by Period	N/A
	Detection Area	100%/75%/50%/25%/10%(set via 3 DIP switch)
	Daylight Sensor	2lux/10lux/25lux/50lux/Disable (set via 3 DIP switch) (Ambient diffusion status)
	Daylight on/off	N/A
	Detecting Radius	4-6m (mounting height 3m)
	Mounting Height	6m Max
	Detecting Angle	150°
Wireless Module	Operating Frequency	N/A
	Transmitting power	N/A
	Transmitting distance	N/A
	Modulation mode	N/A
	Number of coding	N/A
Operating Environment	Operating Temperature	-20℃...+60℃
	Storage Temperature	-40℃...+80℃ Humidity: 10%-95% (Non-condensing)
Certificate Standards	Safety standards	EN61058-1, EN61058-1-2
	EMC standards	EN300440, EN301489-1, EN55015, EN61547, EN61000-3-2 EN61000-3-3, EN62479
	Environmental Requirement	Compliant to RoHS
	Certificate	CE,TUV, RED
Others	Wiring	Press-in Type Terminals, wire diameter:0.75-1.5mm ²
	IP Rating	IP20
	Protection Class	Class II
	Installation	Built-in
	Dimension	77*36*25.6mm
	Package	Bubble bag+Clapboard + Carton(K=A)
	Net Weight	41.0g
Lifetime	5 years warranty @Ta 230V full load	
<p>Note</p> <p>1. "N/A"means not available.</p> <p>2. Detection area is effected on volume of motion object and motion speed. The detection area is tested by a 165cm height person and walking speed is 0.5m/s.</p>		

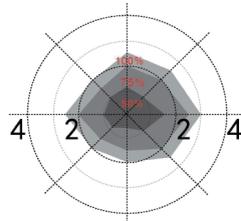
Radiation Pattern

Ceiling mounting

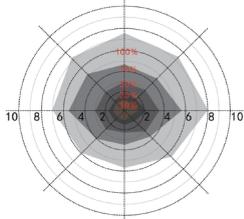
Ceiling mounted height: 3m
Sensitivity: 100%/75%/50%/25%/10%



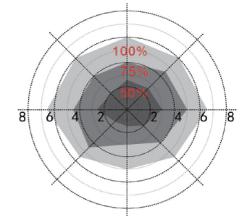
Ceiling mounted height: 6m(*)
Sensitivity: 100%/75%/50%



Normal moving (Speed:1m/s)



Normal moving (Speed:1m/s)



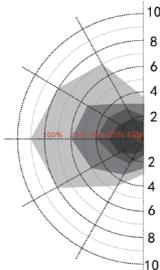
Slow moving (Speed 0.3m/s)

Slow moving (Speed: 0.3m/s)

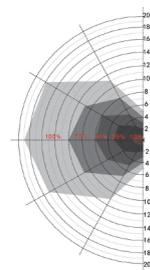
*50%,75%,100% detection sensitivity is workable when installed at 6m mounting height. Only 10%,25% sensitivity is not able to detect motion signal.

Wall mounting:

Wall mounted height: 2m
Sensitivity: 100%/75%/50%/25%/10%



Normal moving (Speed: 1m/s)



Slow moving (Speed 0.3m/s)

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6 Emergency function (96E-ST & 96EMC-ST only)

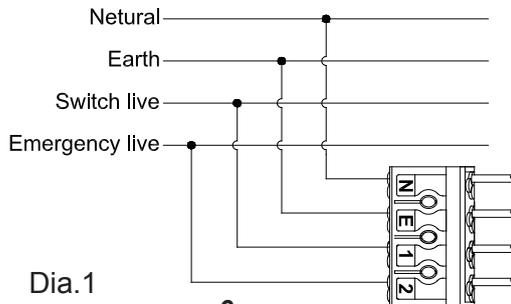
Emergency Technical Data	
Battery Type	Ni-CD 12V 1.0Ah
Battery Charging	60mA, Charging >90% in 24 hours
Discharging	200mA, >3hours autonomy time
Test Button	Included
Self-test	Included
Charging Indicator	Green LED
Faulty Indicator	RED LED
Remote test	Included
Standard	IEC60598-2-22:2014

ADDITIONAL INFORMATION - COMPONENT REPLACEMENT

- The luminaire contains no user replaceable components other than the battery pack contained in emergency versions.
- The battery has a 4 year service life provided it is operated and maintained by regular testing, as detailed in this Usermanual. Failure to maintain or change the battery may result in reduced duration in emergency mode.

Emergency function test before installation

1. Connect the AC cable according to the Dia 1. Keep the Switch Live off, and battery plugged on.
(The green charging indicator on, Faulty indicator off)
2. Press the test button, The charging indicator off, and emergency function actived
3. Unplugged the battery, charging indicator OFF, the faulty indicator flash in 1HZ.



Dia.1

7 Self & remote test system(96EMCST& 96E-ST)

7.1 Testing (If no failure)

7.1.1. Manual function test.

Active the ④ test button.
or press “TEST” switch on controller.

- a) The ② Charging indicator OFF.
- b) The Emergency function ON.
- c) The test will cut off the mains (15W)

7.1.2 Monthly test.

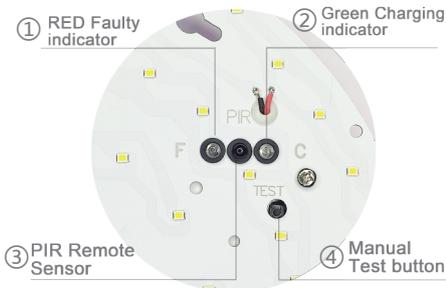
Active the ④ test button for 5 second;
or press the “Monthly TEST” switch on controller;
or the lamp installed every 30 days.

- a) The ② Charging indicator will flash in 1HZ for 128s;
- b) The Emergency function ON;
- c) The test finished and back to standby mode.

7.1.3 Annual test.

Active the test button ④ for 7 second;
or press the “Annual TEST switch on controller;
or the lamp installed every 180 days.

- a) The ② Charging indicator will flash in 2HZ for 3hours;
- b) The charging will be cut off & emergency function ON 3hours;
- c) The lamp back to standby mode after test.



Remote test controller

7.2 Testing (If any failure)

- 7.2.1 Battery failure:  Monitored constantly. The faulty indicator will flash in 1 Hz if the battery failure any time.
- 7.2.2 LED load failure:  If press test button, or the luminary self-monthly test. The faulty indicator will flash in 2 Hz if LED load failure.
- 7.2.3 Duration failure:  Only in Annual self-test. The faulty indicator will turn on constantly if the Battery can not last 3 hours

8 Emergency control logic(96E &96EMCST only)

The emergency function control logic

Operation	Charging indicator		Faulty Indicator		Emergency LED	
	1 Second					
Normal charging	Constantly on		OFF		OFF	
Normal AC Failure	OFF		OFF		Constantly on	
Manual test	OFF		OFF		Constantly on	
Monthly self-test			OFF		Constantly on	
Annual self-test					OFF	
Battery circuit failure	OFF				OFF	
Light source failure	Constantly on					
Duration test failure	Constantly on		Constantly on		Depends on AC supply	



**No Key switch, No Harry, No ladders
Safe / Easy / Convenient**

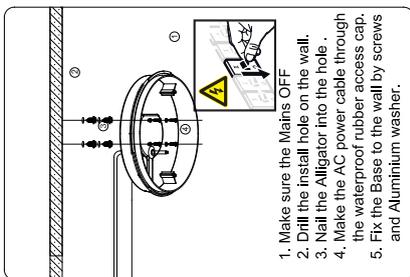
9 Installation guide



Caution

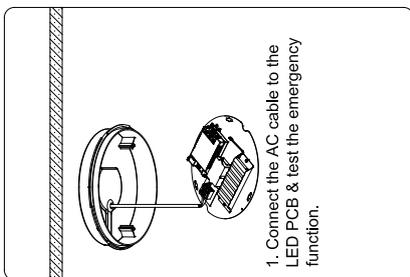
1. All OTC LED bulkheads are designed for projects. Only qualified electrician can install or maintain it.
2. The mains have to be off during the installation or maintenance.
3. Keep the product far from heat sources and in a well ventilated area.

Installation



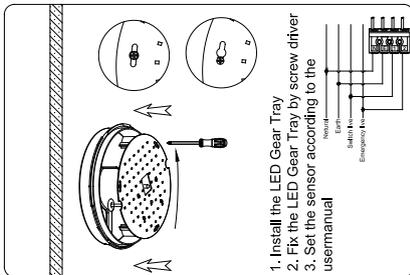
1. Make sure the Mains OFF
2. Drill the install hole on the wall.
3. Nail the Alligator into the hole .
4. Make the AC power cable through the waterproof rubber access cap.
5. Fix the Base to the wall by screws and Aluminium washer.

STEP 1



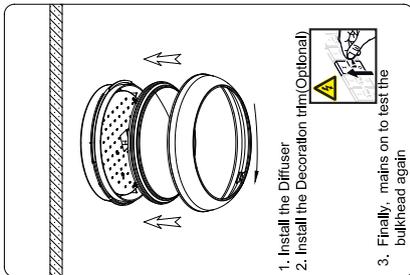
1. Connect the AC cable to the LED PCB & test the emergency function.

STEP 2



1. Install the LED Gear Tray
2. Fix the LED Gear Tray by screw driver
3. Set the sensor according to the usermanual

STEP 3



1. Install the Diffuser
2. Install the Decoration trim(Optional)
3. Finally, mains on to test the bulkhead again

STEP 4

Luminaire emergency inspection record

month	Test	First Year		Second Year		Third Year		Fourth Year		Fifth Year	
		Signed	Date	Signed	Date	Signed	Date	Signed	Date	Signed	Date
1	Functional										
2	Functional										
3	Functional										
4	Functional										
5	Functional										
6	1 hour										
7	Functional										
8	Functional										
9	Functional										
10	Functional										
11	Functional										
12	3 hours										

Installed By:

Installed Date:

Luminaire NO.:

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Luminaire Locaton:

Contact details:

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